FIG. 1

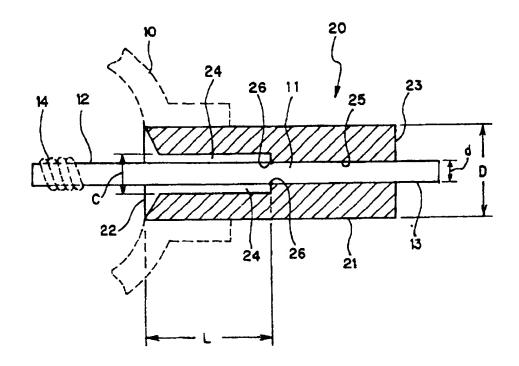


FIG. 2(a)

FIG. 2(b)

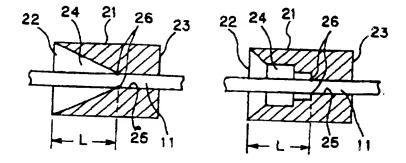


FIG. 2(c)

FIG. 2(d)

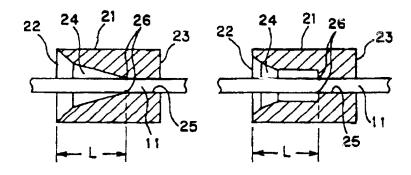
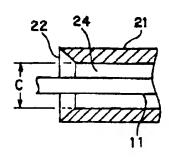


FIG. 3(a)

FIG. 3(b)



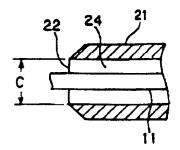
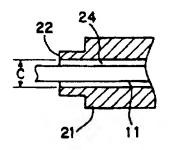


FIG. 3(c)

FIG. 3(d)



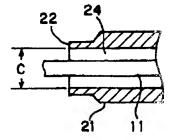


FIG. 3(e)

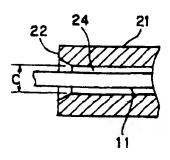


FIG. 4

SiO ₂ - Mo Mixture	Mo content (Vol%)	Thickness of layer (mm)	
1st layer	0	11.5	
2nd layer	0.6	2.5	
3rd layer	1.1	2.5	
4th layer	2.3	2.5	
5th layer	3.7	2	
6th layer	5.1	2	
7th layer	8.5	2	
8th layer	13	2	
9th layer	21	3.5	
10th layer	29	3.5	
11th layer	39	5.5	
12th layer	55	10.5	

FIG. 5

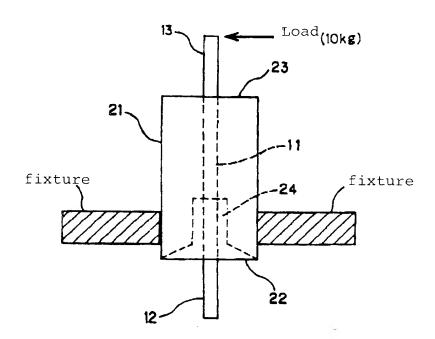


FIG. 6(a)

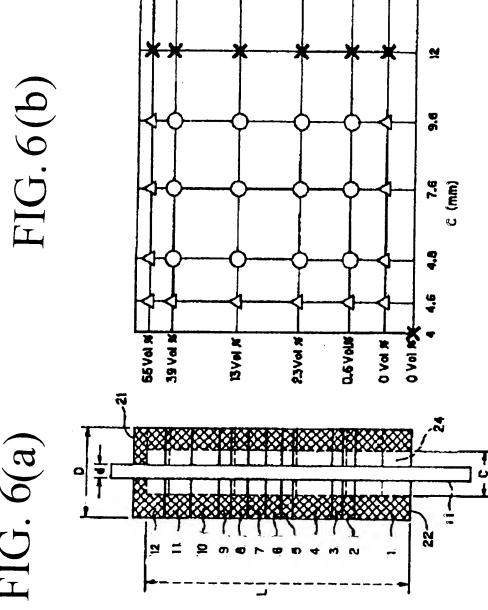


FIG. 7

	Diameter D (mm) of functionally gradient material	Diameter d (mm) of lead bar	Proportion (Vol%) of conductive component at point of attachment	Hole diameter C (mm)	Evaluation
Implementation 2	7	2	39	2.7	0
Implementation 3	7	3	39	3.8	0
Implementation 4	11	3	13	6.5	С
Implementation 5	11	3	39	6.5	0